

AMENDMENTS TO THE CLAIMS:

If entered, this listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (currently amended) A system to perform a light show, wherein LED modules are displaying related light beams having defined properties, wherein said properties have been defined prior to performing said light show, is comprising:

an integrated circuit comprising:

5 an interface to input information about properties of said light beams,
wherein said interface is connected to a memory;

said memory to store the information about the properties of said
beams to be displayed;

 a sequencer to control ~~anone or more~~ LED drivers unit, wherein the
10 sequencer is connected to second terminals of an arrangement of at least one LED
module;

said LED driver unit comprising a driver for each color of said LED
modules able to control the intensity of light ~~where one driver for each LED is used,~~
wherein the LED driver unit is connected between said memory and first terminals of
15 said arrangement of at least one LED module; and

an electrical connection between said LED driver unit and said
arrangement of at least one LED modules; and
an ~~said~~ arrangement of at least one or more LED modules.

2. (cancelled)
3. (original) The system of claim 1 wherein said arrangement of one or more LED modules comprises three LED modules.
4. (original) The system of claim 1 wherein said arrangement of one or more LED modules comprises more than one LED each.
5. (original) The system of claim 4 wherein said arrangement of one or more LED modules comprises three LEDs each.
6. (previously presented) The system of claim 5 wherein said three LED emit each light of a different color wherein said colors are primary colors of a color space.
7. (previously presented) The system of claim 6 wherein said three LED emit red, green and blue light (RGB).
8. (original) The system of claim 1 wherein said LED drivers are PWM LED drivers.
9. (original) The system of claim 8 wherein said PWM drivers are 4-bit drivers.

- 10.**(original) The system of claim **9** wherein 4096 different colors can be displayed.
- 11.**(original) The system of claim **1** wherein said LED drivers are current controlled drivers.
- 12.**(original) The system of claim **1** wherein said properties of said light beams comprise different defined brightness for each LED..
- 13.**(original) The system of claim **1** wherein said properties of said light beams comprise different defined flashing intervals for each LED.
- 14.**(original) The system of claim **1** wherein said properties of said light beams comprise different ON/OFF intervals, different colors, different brightness, and a flashing interval for each LED.
- 15.**(original) The system of claim **1** wherein said LED driver unit is activating the lights in defined time intervals.
- 16.**(previously presented) The system of claim **1** wherein said LED driver unit is controlling the transition between different colors of a LED module using a "flash" mode at turn on point of time wherein said LED is turned on initially to its maximum brightness followed quickly by a set brightness.

- 17.** (original) The system of claim **1** wherein said LED driver unit is controlling the transition between different colors of a LED module using a fading interval.
- 18.** (original) The system of claim **17** wherein different options are possible to define said fading interval.
- 19.** (original) The system of claim **18** wherein said options to define a fading interval include the options "No Fade", "Slow Fade", "Linear Fade", "Fast Fade".
- 20.** (original) The system of claim **19** wherein only a few of said options are being used.
- 21.** (canceled)
- 22.** (original) The system of claim **1** wherein said circuit is realized in an ASIC.
- 23.** (previously presented) The system of claim **1** wherein said LED modules are connected to said circuit via output pins.
- 24.** (original) The system of claim **23** wherein said output pins are arranged and controlled by a multiplexer arrangement.
- 25.** (original) The system of claim **24** wherein nine output pins are arranged and controlled by a multiplexer arrangement.

26. (original) The system of claim **1** wherein said properties of said light beams comprise a light pattern over a multitude of LED modules.

27. (original) The system of claim **1** wherein said properties of said light beams comprise a light intensity setting.

28. (original) The system of claim **27** wherein said light intensity setting is defined for each LED individually.

29. (original) The system of claim **1** wherein said properties of said light beams comprise a defined sequencing of said LEDs.

30. (currently amended) A system for visual, electronic communication, highlighting information/events, wherein LED modules are displaying related light signals having defined properties representing said different information/events, is comprising:

an integrated circuit comprising:

an interface to input information about properties of said light beams, wherein said interface is connected to a memory;

said memory to store the information about the properties of said signals to be displayed;

a sequencer to control anone or more LED drivers unit, wherein the sequencer is connected to second terminals of an arrangement of at least one LED module;

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said LED driver unit comprising a driver for each color of LED
able to control the intensity of light ~~where one driver for each LED is used,~~

wherein the LED driver unit is connected between said memory and first

terminals of said arrangement of at least one LED module; and

an electrical connection between said LED driver unit and to said
arrangement of at least one LED modules; and

~~an~~ said arrangement of at least one ~~or more~~ LED modules.

31. (cancelled)

32. (original) The system of claim **30** wherein said arrangement of one or more LED
modules comprises three LED modules.

33. (original) The system of claim **30** wherein said arrangement of one or more LED
modules comprises more than one LED each.

34. (original) The system of claim **33** wherein said arrangement of one or more LED
modules comprises three LEDs each.

35. (original) The system of claim **34** wherein said three LEDs emit each light of a different
color wherein said colors are primary colors of a color space.

36. (original) The system of claim **35** wherein said three LEDs emit red, green and blue light
(RGB).

37.(original) The system of claim **30** wherein said LED drivers are PWM LED drivers.

38.(original) The system of claim **37** wherein said PWM drivers are 4-bit drivers.

39.(original) The system of claim **38** wherein 4096 different colors can be displayed.

40.(original) The system of claim **30** wherein said LED drivers are current controlled drivers.

41.(original) The system of claim **30** wherein said related signals representing said different information/events are displayed using lights having different brightness.

42.(original) The system of claim **30** wherein said related signals representing said different information/events are displayed using flashing lights.

43.(original) The system of claim **30** wherein defined categories of information are assigned to specific locations of LED modules.

44.(original) The system of claim **30** wherein said related signals representing said different information/events are displayed using lights having a related ON/OFF interval.

45.(original) The system of claim **30** wherein said related signals representing said different information/events are displayed using lights having a related ON/OFF interval, different

colors, different brightness, a flashing interval, an assignment to specific positions, and a related ON/OFF interval.

46. (original) The system of claim **30** wherein said LED driver unit is activating the lights in defined time intervals.

47. (previously presented) The system of claim **30** wherein said LED driver unit is controlling the transition between different colors of a LED module using a “flash” mode at turn on point of time wherein said LED is turned on initially to its maximum brightness followed quickly by a set brightness.

48. (original) The system of claim **30** wherein said LED driver unit is controlling the transition between different colors of a LED module using a fading interval.

49. (original) The system of claim **48** wherein different options are possible to define said fading interval.

50. (original) The system of claim **49** wherein said options to define a fading interval include the options “No Fade”, “Slow Fade”, “Linear Fade”, “Fast Fade”.

51. (original) The system of claim **50** wherein only a few of said options are being used.

52. (canceled)

- 53.** (original) The system of claim **30** wherein said circuit is realized in an ASIC.
- 54.** (previously presented) The system of claim **30** wherein said LED modules are connected to said circuit via output pins.
- 55.** (original) The system of claim **54** wherein nine output pins are arranged and controlled by a multiplexer arrangement.
- 56.** (previously presented) The system of claim **55** wherein nine output pins are arranged and controlled by a multiplexer arrangement.
- 57.** (original) The system of claim **30** wherein said properties of said light signals to be displayed comprise a light pattern over a multitude of LED modules.
- 58.** (original) The system of claim **30** wherein said properties of said signals to be displayed comprise a light intensity setting
- 59.** (original) The system of claim **58** wherein said properties of said signals to be displayed comprise a light intensity setting for each LED individually.
- 60.** (original) The system of claim **30** wherein said properties of said signals to be displayed comprise a defined sequencing of said LEDs.

61. (currently amended) A phone system highlighting information/events, wherein LED modules are displaying related signals representing said different information/events, is comprising:

an integrated circuit comprising:

5 an interface to input information about properties of said light beams, wherein said interface is connected to a memory;

said memory to store the information about the properties of said signals to be displayed;

10 a sequencer to control anone or more LED drivers unit, wherein the sequencer is connected to second terminals of an arrangement of at least one LED module;

15 said LED driver unit comprising a driver for each color of LED able to control the intensity of light ~~where one driver for each LED is used,~~ wherein the LED driver unit is connected between said memory and first terminals of said arrangement of at least one LED module; and

an electrical connection between said LED driver unit and ~~to said~~ arrangement of at least one LED modules; and

~~an~~ said arrangement of at least one ~~or more~~ LED modules.

62. (original) The system of claim **61** wherein said LED modules are located on a prominent location of said phone system.

63. (original) The system of claim **61** wherein said LED modules are located on the front side of said phone system.

64.(original) The system of claim **61** wherein said LED modules are located on the sides of said phone system.

65.(original) The system of claim **61** wherein said phone system is a mobile phone.

66.(original) The system of claim **65** wherein said LED modules are located on the backside of said mobile phone.

67.(original) The system of claim **61** wherein said phone comprises composer software to define the parameters of said sequencer and to download said parameters to said memory.

68. (original) The system of claim **61** wherein the parameters of said sequencer are downloaded from a PC.

69.(original) The system of claim **61** wherein the parameters of said sequencer are downloaded from the Internet.

70.(original) The system of claim **61** wherein said arrangement of one or more LED modules comprises three LED modules.

71.(original) The system of claim **61** wherein said arrangement of one or more LED modules comprises more than one LED each.

- 72.** (original) The system of claim **71** wherein said arrangement of one or more LED modules comprises three LEDs each.
- 73.** (original) The system of claim **72** wherein said three LEDs emit each a light of a different color wherein said colors are primary colors of a color space.
- 74.** (original) The system of claim **73** wherein said three LEDs emit red, green and blue light (RGB).
- 75.** (original) The system of claim **61** wherein said LED drivers are PWM LED drivers.
- 76.** (original) The system of claim **75** wherein said PWM drivers are 4-bit drivers.
- 77.** (original) The system of claim **76** wherein 4096 different colors can be displayed.
- 78.** (original) The system of claim **61** wherein said LED drivers are current controlled drivers
- 79.** (original) The system of claim **61** wherein said related signals representing said different information/events are displayed using lights having different brightness.
- 80.** (original) The system of claim **61** wherein said related signals representing said different information/events are displayed using flashing lights.

- 81.** (original) The system of claim **61** wherein defined categories of information are assigned to specific locations of LED modules.
- 82.** (original) The system of claim **61** wherein said related signals representing said different information/events are displayed using lights having a related ON/OFF interval.
- 83.** (original) The system of claim **61** wherein said related signals representing said different information/events are displayed using lights having a related ON/OFF interval, different colors, different brightness, a flashing interval, an assignment to specific positions, and a related ON/OFF interval.
- 84.** (original) The system of claim **61** wherein said LED driver unit is activating the lights in defined time intervals.
- 85.** (previously presented) The system of claim **61** wherein said LED driver unit is controlling the transition between different colors of a LED module using a "flash" mode at turn on point of time wherein said LED is turned on initially to its maximum brightness followed quickly by a set brightness.
- 86.** (original) The system of claim **61** wherein said LED driver unit is controlling the transition between different colors of a LED module using a fading interval.

- 87.**(original) The system of claim **86** wherein different options are possible to define said fading interval.
- 88.**(original) The system of claim **87** wherein said options to define a fading interval include the options "No Fade", "Slow Fade", "Linear Fade", "Fast Fade".
- 89.**(original) The system of claim **88** wherein only a few of said options are being used.
- 90.**(canceled)
- 91.**(original) The system of claim **61** wherein said circuit is realized in an ASIC.
- 92.** (previously presented) The system of claim **61** wherein said LED modules are connected to said circuit via output pins.
- 93.** (original) The system of claim **92** wherein nine output pins are arranged and controlled by a multiplexer arrangement.
- 94.**(original) The system of claim **93** wherein nine output pins are arranged and controlled by a multiplexer arrangement.
- 95.**(original) The system of claim **61** wherein said properties of said light signals to be displayed comprise a light pattern over a multitude of LED modules.

96. (original) The system of claim **61** wherein said properties of said signals to be displayed comprise a light intensity setting.

97. (original) The system of claim **96** wherein said properties of said signals to be displayed comprise a light intensity setting for each LED individually.

98. (original) The system of claim **61** wherein said properties of said signals to be displayed comprise a defined sequencing of said LEDs.

99. (previously presented) A method to establish visual, electronic communication, highlighting information/events, wherein LED modules are displaying related light signals having defined properties representing said different information/events comprising:

providing an integrated circuit comprising an interface, a memory to store the information about the properties of said beams to be displayed, a sequencer, a LED driver unit connected to LEDs, and one or more LED modules, comprising more than one LED each;

determine the information to be visually highlighted;

define the kind of highlighting of the information selected above;

compose the sequencer steps according to the definitions of the two steps above;

if said composing software is built into a phone, store the sequences in said memory;

otherwise download sequences and store them in said memory; and
ready for operation.

- 100.** (original) The method of claim **99** wherein said related signals representing said different information/events are displayed using lights having different colors.
- 101.** (original) The method of claim **100** wherein 4096 different colors are used.
- 102.** (original) The method of claim **99** wherein said related signals representing said different information/events are displayed using lights having different brightness.
- 103.** (original) The method of claim **99** wherein said related signals representing said different information/events are displayed using flashing lights.
- 104.** (original) The method of claim **99** wherein said related signals representing said different information/events are displayed using LED modules assigned to specific positions.
- 105.** (original) The method of claim **99** wherein said related signals representing said different information/events are displayed using lights having a related ON/OFF interval.

- 106.** (previously presented) The method of claim **99** wherein said related signals representing said different information/events are displayed using lights having different colors, different brightness, a flashing interval, an assignment to specific positions, and a related ON/OFF interval.
- 107.** (previously presented) The method of claim **106** wherein said LED driver unit is controlling the transition between different colors of a LED module using a “flash” mode at turn on point of time wherein said LED is turned on initially to its maximum brightness followed quickly by a set brightness.